

Application No. 10/764,615

IN THE SPECIFICATION:

Please replace paragraph [0056] on page 25 with the following new paragraph:

[0056] The flexibility inherent in the flexible process optimizer 100 also allows the system software to compute and save special parameters that determine, and may limit, the system performance, that continuously change over time, and that may not be easy to control in real time. Returning to the ~~exempl~~example of the production grinding process, one such special parameter is the grinding wheel hungriness, which represents the ability of the grinding wheel to remove material from a workpiece. Grinding wheel hungriness continually changes based upon the length of service of the grinding wheel since installation of the wheel or dressing of the grinding wheel and the relative hardnesses of the grinding wheel and the workpiece being ground.